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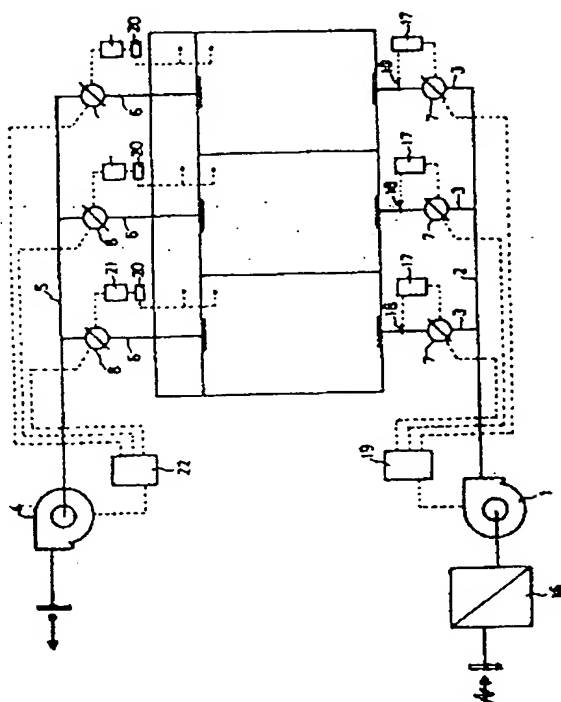
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TITLE : CONSTANT AIR QUANTITY AND
MINUTE INTER-ROOM PRESSURE
DIFFERENCE CONTROL TYPE AIR
CONDITIONING METHOD



ABSTRACT : PURPOSE: To perform a constant air quantity control in an energy saving manner while reducing the pressure differences among rooms by a method wherein the opening and closing degrees of each of dampers and the quantity of air blown out by an air sucking fan and an air exhaust fan are controlled by a pressure difference controller.

CONSTITUTION: In an air conditioning equipment comprising an air supply system provided with branched air supply ducts 3 extending from a main supply duct 2 on the discharge side of the air supply fan 1 and communicating with a blowout port in each of the rooms and an exhaust system provided with branched air sucking ducts 6 extending from a main exhaust duct 5 on the sucking side of the air exhaust fan 4 and arranged in the rooms, respectively, the control of the amount of ventilation in the air supply system is performed in such a manner that constant air quantity valves 7 are interposed in the branched air supply ducts 3, respectively, and when neither of the valves 7 is opened to the full, the ventilating capacity of the air supply fan 1 is lowered while when any one of the valves 7 is opened to the full, the ventilating capacity of the air supply fan 1 is increased. Further, the control of the amount of ventilation in the exhaust system is performed in such a manner that dampers 8 the opening degree of each of which is adjusted in proportion to the minute pressure difference between the rooms are interposed in the branched air exhaust ducts 6, respectively, and when neither of the dampers 8 is opened to the full, the ventilating capacity of the air exhaust fan 4 is increased. In this case, both of the above-mentioned controls are performed independently of each other, whereby the constant air quantity and minute inter-room pressure difference control is performed.

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